

METHOD OF BINDING PARTICLES TO BINDER TREATED FIBERS

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Abstract of the Disclosure

Fiber treated with an organic nonpolymeric binder is combined with superabsorbent particles in order to bind the particles to the fiber. The nonpolymeric organic binder comprises binder molecules that include at least one functional group capable of forming a hydrogen bond or a coordinate covalent bond with the particles and at least one functional group capable of forming a hydrogen bond with the fiber. The superabsorbent particles have a hydrogen or coordinate covalent bonding functional site. The binder serves to bind the particles to the fiber through formation of hydrogen and/or coordinate covalent bonds.

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~~a DENSIFYING AGENTS FOR ENHANCING FIBER DENSIFICATION~~

Abstract of the Disclosure

- ~~A densifying agent is applied to fibers in order to improve the densification properties of the fibers. The fibers have hydrogen bonding functional groups. The densifying agent are denser than the fibers to which the densifying agent is applied. The densifying agent can be organic or inorganic. The improved densification properties are observed without the presence of particles bound to the fibers or in the presence of particles that are not bound to the fibers. Softening agents can also be applied to the fibers in order to soften the fibers and articles including such fibers. Softening agents may be selected from the group of densifying agents.~~
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